Intel-NTU Digital Health Project

Publications & Related Government Funding (8/1/2008 ~ 4/22/2009)

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Please note that our publications have been focusing on the highly selective peer-reviewed conferences (in the A+ category). This publication strategy pushes us to meet the research standard at the very top U.S. academic and industry labs (including Intel research labs) in the area of computer science. Our publication results have shown that the generous grants from Intel Education Taiwan have contributed in raising the research quality standard at NTU as well as influencing Taiwan computer science research community.

A+. Highly Selective Peer-Reviewed Conferences

1. Te-Yuan Huang, Kuan-Ta Chen, Polly Huang
   Tuning the Redundancy Control Algorithm of Skype for User Satisfaction
   In Proceedings of the 28th Conference on Computer Communications (INFOCOM 2009), Rio de Janeiro, Brazil, April 2009 (Acceptance Rate: 20%)

2. Kai-Yi Zhen, Sheng-Jie Liu, Bing-Yu Chen, Hao-Hua Chu
   SmartPlayer: User Centric Video Fast-Forwarding

3. Chuan-Heng Hsiao, Li-Wei Chan, Mon-Chu Chen, Jane Yung-jen Hsu, Yi-Ping Hung
   To Move or Not to Move: A Comparison between Steerable and Fixed Regions of High-Resolution Projection in Multi-Resolution Tabletop Systems

   Spinning Beacons for Precise Indoor Localization
   In Proceedings of 6th ACM Conference on Embedded Networked Sensor Systems (SenSys 2008), Raleigh, NC, USA, November 2008 (Acceptance Rate: 16%)

5. Wee-Kheng Leow, Cheng-Chieh Chiang, Yi-Ping Hung
   Localization and Mapping of Surveillance Cameras in City Map

A. Journals

1. Chieh-Chih Wang, Chi-Hao Lin, Jwu-Sheng Hu
   Probabilistic Structure from Sound

2. Kuan-Ta Chen, Jhih-Wei Jiang, Polly Huang, Hao-Hua Chu, Chin-Laung Lei, Wen-Chin Chen
   Identifying MMORPG Bots: A Traffic Analysis Approach (Extended)
   EURASIP Journal on Advances in Signal Processing, To Appear, 2009 (SCI, IF=0.619, 131/227 EE)

3. Kuan-Ta Chen, Polly Huang, Chin-Laung Lei
   Effect of Network Quality on Player Departure Behavior in Online Games
   IEEE Transaction on Parallel and Distributed Computing, To Appear, 2009 (SCI, IF=1.146, 72/227 EE)

4. Wen-Yan Chang, Chu-Song Chen, Yi-Ping Hung
   Tracking by Parts: A Bayesian Approach with Component Collaboration


B. Conferences


4. Tsu-yu Wu, Yi-Ting Chiang, Jane Yung-jen Hsu
   Continuous recognition of daily activities from multiple heterogeneous sensors

5. Chuan-Heng Hsiao, Wei-Chia Huang, Kuan-Wen Chen, Li-Wei Chang, Yi-Ping Hung
   Generating Pictorial-Based Representation of Mental Image for Video Monitoring

6. Wei-Ting Peng, Wei-Jia Huang, Wei-Ta Chu, Chien-Nan Chou, Wen-Yan Chang, Chia-Han Chang, Yi-Ping Hung
   A User Experience Model for Home Video Summarization

7. Ching-Hu Lu, Yung-Ching Lin, Li-Chen Fu
   Hide and Not Easy to Seek: A Hybrid Weaving Strategy for Context-aware Service Provision in a Smart Home

8. Chi-Pang Lam, Wei-Jen Kuo, Chun-Feng Liao, Ya-Wen Jong, Li-Chen Fu
   An Efficient Hierarchical Localization for Indoor Mobile Robot with Wireless Sensor and Pre-Constructed Map

9. Chih-Ming Chen, Te-Yuang Huang, Kuan-Ta Chen, Polly Huang
   Quantifying the Effect of Content-based Transport Strategies for Online Role Playing Games

10. Pin-Yun Tarng, Kuan-Ta Chen, Polly Huang
    An Analysis of WoW Players' Game Hours
    In Proceedings of 7th ACM Workshop on Network and Systems Support for Games (NetGames2008), Worcester, Massachusetts, USA, October 2008

11. Shin-Lung Huang, Ling-Jyh Chen, Polly Huang
    Cross-Layer Performance Evaluation of Sensor Networks: Routing over Energy Efficient MAC

12. Tsung-Han Lin, Keng-Hao Chang, Jr-Ben Tian, Hao-hua Chu, Polly Huang
    Modeling and Simulation Comparison of Two Time Synchronization Protocols

13. Li-Wei Chan, Ting-ting Hu, Yi-Ping Hung, Jane Hsu
    On top of tabletop: a virtual touch panel display
    In IEEE Tabletops and Interactive Surfaces 2008, Amsterdam, Netherlands, October 2008.

14. Ting-Ting Hu, Yi-Wei Chia, Li-Wei Chan, Yi-Ping Hung, Jane Hsu
    i-m-Top: An interactive multi-resolution tabletop system accommodating to multi-resolution human vision
    In IEEE Tabletops and Interactive Surfaces 2008, Amsterdam, Netherlands, October 2008.

15. Ya-Wen Jong, Chun-Feng Liao, Li-Chen Fu
    An Efficient Autonomous Failure Recovery Mechanism for UPnP-based Message-Oriented Pervasive Services

16. Chun-Wei Chen, Chieh-Chih Wang
    3D Active Appearance Model for Aligning Faces in 2D Images

17. Daniel C. Wu Jr, Jih-Shiang Chang, Chung-Yi Chi, Chui-De Chiu, Richard Tzong-Han Tsai, Jane Yung-jen Hsu
Music and lyrics: Can lyrics improve emotion estimation for music?

18. Kao-Wei Wan, Chieh-Chih Wang, Tu T. Ton
Weakly Interacting Object Tracking in Indoor Environments

19. Lu-Jong Chu, Chia-Ping Chen, Chu-Song Chen, Yi-Ping Hung
3D Human Motion Tracking with Soft-Joint Constrained ICP

20. Chi-Hao Lin, Chieh-Chih Wang
Probabilistic Structure from Sound and Probabilistic Sound Source Localization

21. Yu-Hsin Chang, Li-Wei Chan, Ju-Chun Ko, Ming-Sui Lee, Jane Hsu, Yi-Ping Hung
QPalm: A gesture recognition system for remote control with list menu
In International Conference on IEEE Ubi-media Computing, Lanzhou University, China, July 2008.

22. Zita Chao-ling Chen, Yi-luu Chao, Jih-shiang Chang, Li-wei Chan, Yung-jen Hsu, Yi-ping Hung
Moodlog: Touring in mood of place
In International Conference on IEEE Ubi-media Computing, Lanzhou University, China, July 2008.

23. Meng-Chieh Yu, Ju-Chun Ko, Ching-Yao Lin, Chia-Han Chang, Ya-Han Yang, Shih-Chang Lin, Jin-Shing Chen, King-Jen Chang, Shuenn-Wen Kuo, Su-Chu Hsu, Yi-Ping Hung
Multimedia Feedback for Improving Breathing Habit
The First IEEE International Conference on Ubi-media Computing, Lanzhou University, China, July 2008.

24. Chia-Chuan Hung, Yi-Ching Huang, Jane Yung-jen Hsu, David Wu
Tagging-Based User Profiling for Social Media Recommendation

25. Chia-chun Lian, Jane Yung-jen Hsu
Chatting Activity Recognition in Social Occasions Using Factorial Conditional Random Fields with Iterative Classification

26. Yi-Chao Chen, Yu-Te Huang, Jyh-How Huang, Ling-Jyh Chen, Polly Huang, Shivakant Mishra
YushanNet: A Real-World WSN Deployment for Hiker Tracking in Yushan National Park

27. Chun-Chieh Hsiao, Polly Huang
Two Practical Considerations of Beacon Deployment for Ultrasound-Based Indoor Localization Systems
In Proceedings of IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC2008), Taichung, Taiwan, ROC, June 2008

28. Tsung-Han Lin, I-Hei Ng, Seng-Yong Lau, Kwang-Ming Chen, Polly Huang
A Microscopic Examination of an RSSI-Signature-Based Indoor Localization System
In Proceedings of 5th Workshop on Embedded Networked Sensors (HotEmNets 2008), Charlottesville, Virginia, USA, June 2008

29. Kuan-Wen Chen, Chih-Chuan Lai, Yi-Ping Hung, Chu-Song Chen
An Adaptive Learning Method for Target Tracking across Multiple Cameras

30. Shao-Wen Yang, Chieh-Chih Wang
Dealing with Laser Scanner Failure - Mirrors and Windows

31. Wenn-Chieh Tsai, Yuan-Hsiang Lee, Tsung-Hsiang Chang, Chien-Ju Ho, Jane Yung-jen Hsu
   *Designing Human-Computer Multi-agent Collaboration in Productive Multi-Player Games*

32. Chun-Feng Liao, Ya-Wen Jong, Li-Chen Fu
   *Community-based Autonomous Service Activation and Failure Recovery in a Message-Oriented Pervasive Middleware*

33. Chao-Lin Wu, Li-Chen Fu
   *A Human-System Interaction Framework and Algorithm for UbiComp-based Smart Home*

34. Chun-Feng Liao, Ya-Wen Jong, Li-Chen Fu
   *Toward a Message-Oriented Application Model and its Middleware Support in Ubiquitous Environments*
   In Proceedings of International Conference on Multimedia and Ubiquitous Engineering (MUE), pp.298-303, Busan, Korea, April 24-26, 2008. (acceptance rate : 22.5%).

35. Chun-Feng Liao, Ya-Wen Jong, Li-Chen Fu
   *Toward a Message-Oriented Application Model and its Middleware Support in Ubiquitous Environments*
   In International Conference on Multimedia and Ubiquitous Engineering, April 2008

36. Yi-Ching Huang, Chia-Chuan Hung, Jane Yung-jen Hsu
   *You are what you tag*

37. Wei-Ting Peng, Yueh-Hsuan Chiang, Wei-Ta Chu, Wei-Jia Huang, Wei-Lun Chang, Po-Chung Huang, Yi-Ping Hung
   *Aesthetics-based Home Video Skimming System*

C. Taiwan Government Grants (Related NSC Fundings)

1. NSC Grant# 95WFA0102581, iCare2.0: Enabling Next Generation e-Services for Digital Living, 8/1/2007 ~ 7/31/2010. Approximately NTD 6,000,000.